



Di enhancing the value of the building \cdots

Di ensuring perfect safety & reliability

Di providing ride comfort

Di maximizing energy & space saving

Di furnishing modern & universal design

Distributed Inverter Elevator









The Changwon Factory

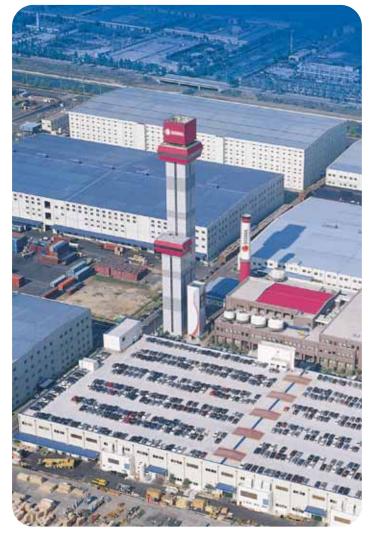
The Changwon Factory in Korea which is referred as the single largest elevator plant provides one-stop manufacturing of high quality

· Annual production Capacity(as of 2005)

- Elevator: 15,000 units - Escalator : 700 units







The Design Center

The Design Center in Korea provides perfect customer satisfaction by meeting any customer needs

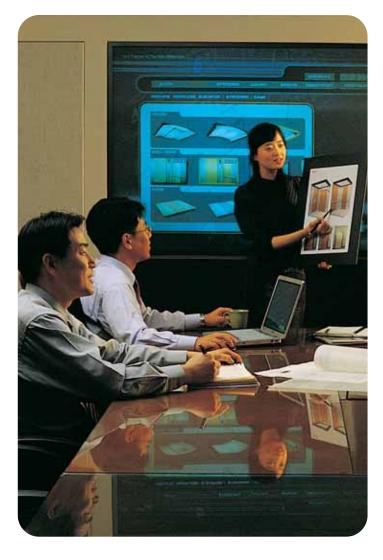
- Established in 1995
- · 10 aesthetic designers(as of 2005)

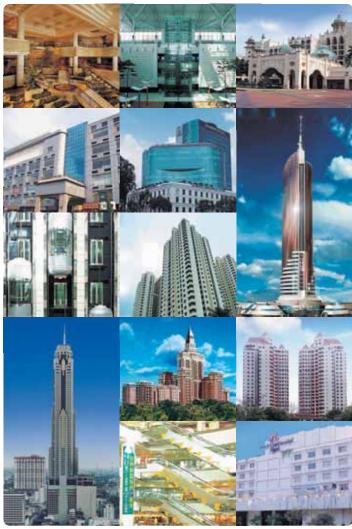


SIGMA in the world

SIGMA has been serving you in more than 70 countries around the world for over 35 years

- Accumulated Sales(as of 2005)
- over 150,000 units





Safety & Reliability

SIGMA Elevator company's number one priority is safety. Our basic spirit to ensure safety is through control technology such as 'back-up solution, safety drive operation' and more than 10 other safety devices.

We execute more than 30 kinds of reliability tests. These intense quality assurance programs make fool-proof products from design stage.

Through SIGMA Net which monitors elevator, escalator and movingwalks by internetbased software, our elevator not only provides a comprehensive and easy-to-use interface but also brings perfect quality to reality.





Vibration and **Dropping Test**



ESD Test (Electro Static Discharge)



Burst Test



ISO 9001 ISO 14001





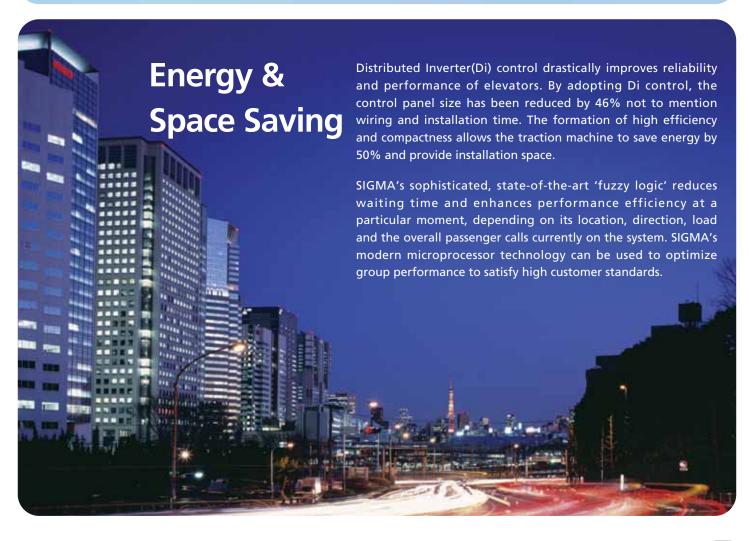




Ride Comfort

SIGMA provides best-in-class ride quality on every lift we install. High switching speed of power device in the drive(IGBT) reduces motor noise. Moreover, door operator with VVVF control ensures silent door movement. The result of modern technology allows SIGMA to reduce vibration and noise to a minimum level.

Customers define luxury as a swift, smooth and silent ride. Our seamless interface between tenant requirements and elevator performance meets the exact standards and higher expectation of customers.







SIGMA Elevator company has a 'Design Center' for creative and innovative product development to meet the various needs of customers.

Our newly released ceiling and fixture fully contains brightness and luxury which represent the latest trend.

SIGMA believes there is no boundary in usage of the elevator. This kind of belief not only enhances the external finish of elevator but also enriches the essence of human life. We proudly recommend everyone to experience our innovative design and wide assortments with all your senses.

Newly designed round buttons offer attractive shape and distinctive feelings

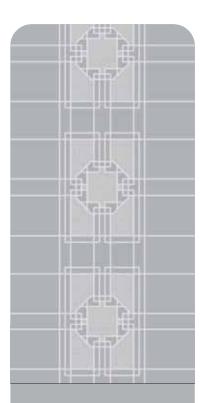
Thickness of handrail provides comfortable rest and stability

OPB with tactile buttons enables the handicapped to easily recognize

Fixture installed at proper height allows children to free access



Natural Modern



more than 1000kg



less than 900kg



Ceiling C-NS1 OPB CBM-22C

STS Hairline Etching(EW2-071) Wall STS Hairline Etching(EH1-071) Door

HR-04 Handrail Deco Tile Floor



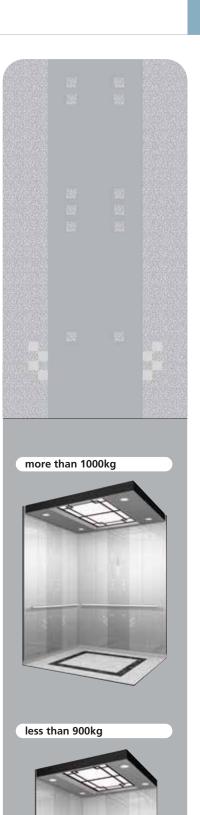
Royal Modern

Ceiling C-NS2 CBM-22C OPB

STS Hairline Etching (EW2-067) Wall STS Hairline Etching (EH1-067) Door

HR-04 Handrail Deco Tile Floor





Techno Modern

Ceiling C-NS3

OPB

Wall STS Hairline Etching (EW2-060) Door STS Hairline Etching (EH1-060)

CBM-22C

HR-04 Handrail Floor Deco Tile





Contemporary Modern

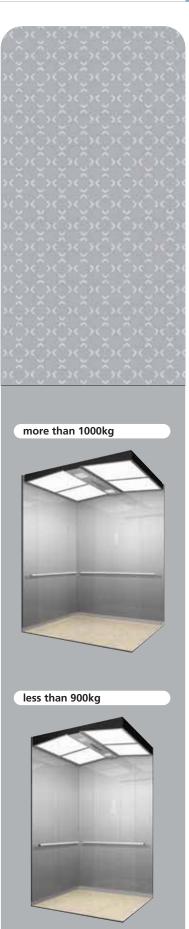
Ceiling C-NL1 OPB CBM-22 CPI CID-11

Wall STS Hairline Etching (EW2-064) + STS Hairline

Door STS Hairline Etching (EH1-064)

HR-04 Handrail Floor Deco Tile





Entrance











• Jamb : Narrow Jamb in Painted Steel Sheet (No. LGM-922)

• Door : Painted Steel Sheet (No. LGM-922)

• Sill : Extruded Hard Aluminum

• Hall Indicator & Hall Button : VID-M652

• Jamb : Wide Taper Jamb in STS Hairline

• **Door**: STS Hairline Etching (No. EH1-064)

• Sill: Extruded Hard Aluminum

• Hall Indicator & Hall Button : VID-M652

• Jamb : Wide Taper Jamb with Transom Panel in STS Hairline

• **Door**: STS Hairline Etching (No. EH1-067)

• Sill : Extruded Hard Aluminum • Hall Indicator : HID-A122

• Hall Button : HBM-R45

Ceiling

Mixture of classic and modern design with sensuous illumination enjoying comforts of natural lights inside the elevators



Standard



C-HX2 (Painted steel sheet color No.LGM-922)



C-HX3 (Painted steel sheet color No.LGM-922)



C-NS1 (Painted steel sheet color No.LGM-924+LGM-920)



C-NS2 (Painted steel sheet color No.LGM-924+LGM-920)

Option



(Painted steel sheet color No.LGM-924+LGM-920)



(Painted steel sheet color No.LGM-924+Stainless Mirror)

Fixture & Colors

OPB



Hall Button



Handicapped OPB



OPB



Hall Button



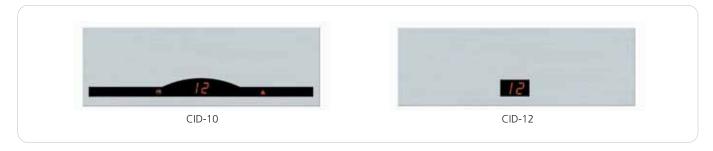
Handicapped OPB



Hall Position Indicators (Horizontal Type)



Car Position Indicators



Handrails



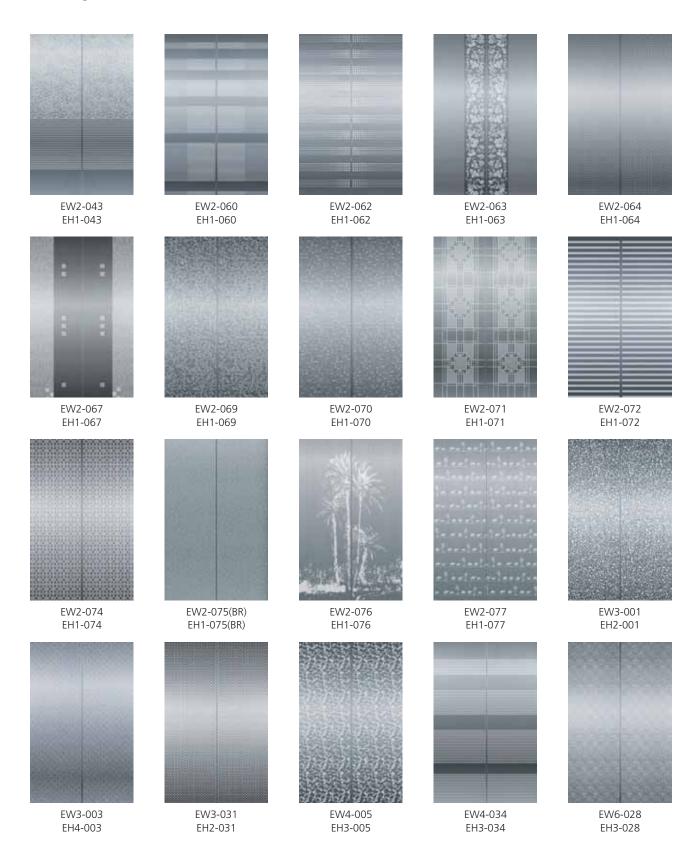
Painted Steel Sheet Color



[•] Actual colors may be different from these prints.

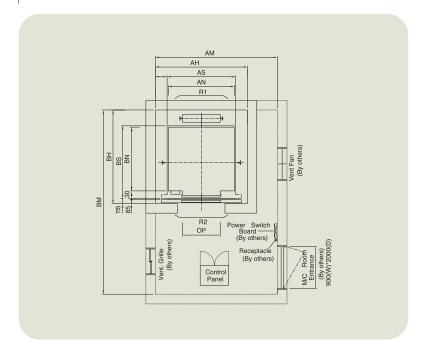
Etching Patterns

Etching Patterns

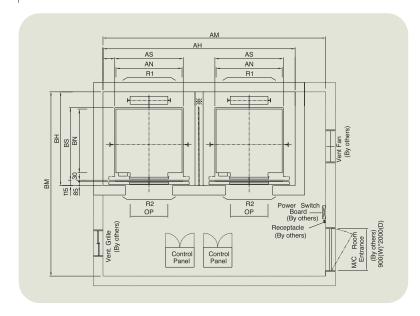


Passenger Elevator Layouts

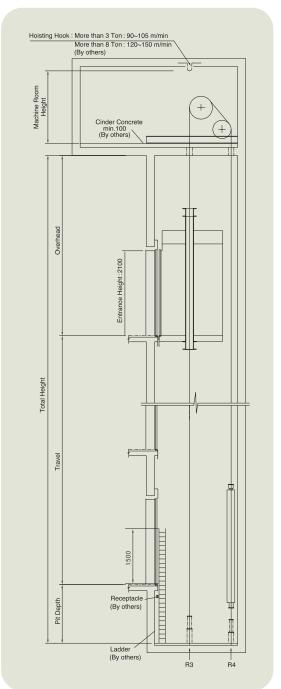
Hoistway & Machine Room Plan(Simplex)



Hoistway & Machine Room Plan(Duplex)



Hoistway Section



Note

- 1. * (Separating Beams): By Others

Overhead, Pit Depth & Machine Room Height

(Unit:mm)

Items	Speed	Load		Code / 0	Country	
items	(m/min)	(kg)	Standard	EN Code	Malaysia	Singapore
	60	L≤1020	4550	4200	4200	4400
	00	L > 1020	4600	4250	4250	4400
Overhead	90	L≤1020	4750	4400	4400	4450
Overnead	90	L > 1020	4800	4450	4450	4600
	105	L≤1020	4950	4600	4600	4600
	103	L > 1020	5000	4650	4650	4750
	60	L≤1020	1500	1450	1450	1450
	00	L > 1020	1600	1550	1600	1550
Pit	90	L≤1020	1800	1600	1550	1500
Depth	90	L > 1020	1800	1700	1700	1600
	105	L≤1020	2100	1700	1800	1700
	103	L > 1020	2100	1850	1950	1950
Machine room	60,90,105	L≤1020	2200	2200	2500	2200
Height	00,90,105	L > 1020	2400	2400	2850	2400

(Unit:mm)

Items	Speed		Code /	Country	
items	(m/min)	Standard	EN Code	Malaysia	Singapore
Overhead	120	5500	5200	5200	5200
Overneau	150	5700	5400	5400	5400
Pit	120	2100	2100	2100	2000
Depth	150	2400	2500	2500	2400
Machine room	120	2400	2400	2850	2400
Height	150	2400	2400	2850	2400

Planning Guide For Dimensions | Di1 (60 m/min)

Standard (Unit:mm)

	Cap	acity	Entrance	Car	Size		Hoistw	ay Size			Machine	Room Size		Machin	e Room	Pit Re	action
Speed (m/min)	Dorson	1 1/1>	Opening	Inside	Outside	Sim	plex	Dup	olex	Sim	plex	Dup	olex	Reaction	Load(kg)	Load	d(kg)
(,	reison	Load(kg)	(mm)	AN×BN	AS×BS	АН	ВН	АН	ВН	AM	BM	AM	BM	R1	R2	R3	R4
	6	450	800	1400×850	1450×1015	1800	1450	3750	1450	2100	3200	4100	3200	3600	2000	3800	3150
	8	550	800	1400×1030	1450×1195	1800	1630	3750	1630	2100	3400	4100	3400	4050	2500	4550	3350
	9	600	800	1400×1100	1450×1265	1800	1700	3750	1700	2100	3500	4100	3500	4100	2500	4700	3450
	10	680	800	1400×1250	1450×1415	1800	1850	3750	1850	2100	3650	4100	3650	4200	2800	5000	3600
	11	750	800	1400×1350	1450×1515	1800	1950	3750	1950	2100	3750	4100	3750	4550	2900	5200	3750
	13	900	900	1600×1350	1650×1515	2000	1950	4150	1950	2300	3750	4500	3750	5100	3800	6300	4500
60	15	1000	900	1600×1500	1650×1665	2000	2100	4150	2100	2300	3900	4500	3900	5450	4300	6600	4700
	17	1150 -	1000	1800×1500	1890×1685	2400	2200	4950	2200	2700	4000	5300	4000	8000	5200	0550	7150
	17	1130	1100	2000×1350	2090×1535	2600	2050	5350	2050	2900	3850	5700	3850	8000	5200	9550	7150
	20	1350 -	1000	1800×1700	1890×1885	2400	2400	4950	2400	2700	4200	5300	4200	8900	6000	10150	7500
		1330	1100	2000×1500	2090×1685	2600	2200	5350	2200	2900	4000	5700	4000	8900	6000	10150	7500
		1600	1100	2000×1750	2090×1935	2600	2450	5350	2450	2900	4250	5700	4250	10200	7000	10000	8700
		1000	1100	2150×1600	2240×1785	2750	2300	5650	2300	3050	4100	6000	4100	10200	7000	10900	8700

EN Code (Unit:mm)

	Cap	acity	Entrance	Car	Size		Hoistw	ay Size			Machine I	Room Size		Machin	e Room	Pit Re	action
Speed (m/min)	Person	Load(kg)	Opening	Inside	Outside	Sim	plex	Dup	olex	Sim	plex	Duj	olex	Reaction	Load(kg)	Load	l(kg)
(,	reison	Load(kg)	(mm)	AN×BN	AS×BS	АН	ВН	АН	вн	AM	BM	AM	BM	R1	R2	R3	R4
	6	450	800	1400×850	1450×1015	1800	1450	3750	1450	2100	3200	4100	3200	3600	2000	3800	3150
	7	525	800	1400×1030	1450×1195	1800	1630	3750	1630	2100	3400	4100	3400	4050	2500	4550	3350
	8	600	800	1400×1100	1450×1265	1800	1700	3750	1700	2100	3500	4100	3500	4100	2500	4700	3450
	9	675	800	1400×1250	1450×1415	1800	1850	3750	1850	2100	3650	4100	3650	4200	2810	5000	3600
	10	800	800	1400×1350	1450×1515	1800	1950	3750	1950	2100	3750	4100	3750	4550	2900	5200	3750
	12	900	900	1600×1350	1650×1515	2000	1950	4150	1950	2300	3750	4500	3750	5100	3800	6300	4500
60	13	1000	900	1600×1500	1650×1665	2000	2100	4150	2100	2300	3900	4500	3900	5450	4300	6600	4700
	16	1200	1000	1800×1500	1890×1685	2400	2200	4950	2200	2700	4000	5300	4000	8000	5200	0550	7450
	10	1200	1100	2000×1350	2090×1535	2600	2050	5350	2050	2900	3850	5700	3850	8000	5200	9550	7150
	18 1350	1250	1000	1800×1700	1890×1885	2400	2400	4950	2400	2700	4200	5300	4200	8900	6000	10150	7500
		1330	1100	2000×1500	2090×1685	2600	2200	5350	2200	2900	4000	5700	4000	8900	6000	10150	7500
	21 160	1600	1100	2000×1750	2090×1935	2600	2450	5350	2450	2900	4250	5700	4250	10200	7000	10000	0700
		1000	1100	2150×1600	2240×1785	2750	2300	5650	2300	3050	4100	6000	4100	10200	7000	10900	8700

Malaysia, Singapore

(Unit : mm)

	Сар	acity	Entrance	Car	Size		Hoistw	ay Size			Machine	Room Size		Machin	e Room	Pit Re	action
Speed (m/min)	Person	Load(kg)	Opening	Inside	Outside	Sim	plex	Dup	olex	Sim	plex	Duj	olex	Reaction	Load(kg)	Load	d(kg)
	reison	Loau(kg)	(mm)	$AN \times BN$	AS×BS	AH	ВН	АН	ВН	AM	BM	AM	BM	R1	R2	R3	R4
	6	450	800	1400×820	1450×985	1800	1420	3750	1420	2100	3170	4100	3170	3600	2000	3800	3150
	8	550	800	1400×1030	1450×1195	1800	1630	3750	1630	2100	3400	4100	3400	4050	2500	4550	3350
	9	610	800	1400×1150	1450×1315	1800	1750	3750	1750	2100	3550	4100	3550	4100	2500	4700	3450
	10	680	800	1400×1250	1450×1415	1800	1850	3750	1850	2100	3650	4100	3650	4200	2800	5000	3600
	11	750	800	1400×1350	1450×1515	1800	1950	3750	1950	2100	3750	4100	3750	4550	2900	5200	3750
	13	900	900	1600×1350	1650×1515	2000	1950	4150	1950	2300	3750	4500	3750	5100	3800	6300	4500
60	15	1020	900	1600×1550	1650×1715	2000	2150	4150	2150	2300	3950	4500	3950	5450	4300	6600	4700
	17	1155	1000	1800×1500	1890×1685	2400	2200	4950	2200	2700	4000	5300	4000	8000	5200	0550	7450
	17	1133	1100	2000×1350	2090×1535	2600	2050	5350	2050	2900	3850	5700	3850	8000	5200	9550	7150
	20	1360	1000	1800×1750	1890×1935	2400	2450	4950	2450	2700	4250	5300	4250	8900	6000	10150	7500
	20	1300	1100	2000×1550	2090×1735	2600	2250	5350	2250	2900	4050	5700	4050	8900	6000	10150	7500
	23	23 1565	1100	2000×1750	2090×1935	2600	2450	5350	2450	2900	4250	5700	4250	10200	7000	10900	8700
	23	23 1565	1100	2150×1600	2240×1785	2750	2300	5650	2300	3050	4100	6000	4100	10200	7000	10900	6700

Planning Guide For Dimensions | Di1 (90,105 m/min)

Standard (Unit: mm)

	Сар	acity	Entrance	Car	Size		Hoistw	ay Size			Machine	Room Size		Machin	e Room	Pit Rea	action
Speed (m/min)	Dorson	Load(kg)	Opening	Inside	Outside	Sim	plex	Duj	olex	Sim	plex	Duj	olex	Reaction	Load(kg)	Load	(kg)
	reison	Loau(kg)	(mm)	$AN \times BN$	AS×BS	AH	ВН	AH	ВН	AM	BM	AM	BM	R1	R2	R3	R4
	8	550	800	1400×1030	1450×1195	1800	1630	3750	1630	2100	3400	4100	3400	4200	2800	6550	4800
	9	600	800	1400×1100	1450×1265	1800	1700	3750	1700	2100	3500	4100	3500	4500	3100	6850	5000
	10	680	800	1400×1250	1450×1415	1800	1850	3750	1850	2100	3650	4100	3650	4900	3400	7450	5350
	11	750	800	1400×1350	1450×1515	1800	1950	3750	1950	2100	3750	4100	3750	5250	3700	7850	5550
	13	900	900	1600×1350	1650×1515	2000	1950	4150	1950	2300	3750	4500	3750	5750	4100	9000	6250
90	15	1000	900	1600×1500	1650×1665	2000	2100	4150	2100	2300	3900	4500	3900	6150	4600	9650	6650
105	17	1150	1000	1800×1500	1890×1685	2400	2200	4950	2200	2700	4000	5300	4000	9400	7750	1.4100	10400
	17	1130	1100	2000×1350	2090×1535	2600	2050	5350	2050	2900	3850	5700	3850	9400	7750	14100	10400
	20	1350	1000	1800×1700	1890×1885	2400	2400	4950	2400	2700	4200	5300	4200	10000	8250	15400	11150
	20	1330	1100	2000×1500	2090×1685	2600	2200	5350	2200	2900	4000	5700	4000	10000	8250	15400	11150
	2/1	1600	1100	2000×1750	2090×1935	2600	2450	5350	2450	2900	4250	5700	4250	11550	8700	10000	12000
	24	1000	1100	2150×1600	2240×1785	2750	2300	5650	2300	3050	4100	6000	4100	11550	8700	16950	12000

EN Code (Unit:mm)

	Cap	acity	Entrance	Car	Size		Hoistw	ay Size			Machine	Room Size		Machin	e Room	Pit Rea	action
Speed (m/min)	D		Opening	Inside	Outside	Sim	plex	Duj	olex	Sim	plex	Duj	olex	Reaction	Load(kg)	Load	l(kg)
(reison	Load(kg)	(mm)	AN×BN	AS×BS	АН	ВН	АН	ВН	AM	BM	AM	BM	R1	R2	R3	R4
	7	525	800	1400×1030	1450×1195	1800	1630	3750	1630	2100	3400	4100	3400	4050	2500	6550	4800
	8	600	800	1400×1100	1450×1265	1800	1700	3750	1700	2100	3500	4100	3500	4100	2500	6850	5000
	9	675	800	1400×1250	1450×1415	1800	1850	3750	1850	2100	3650	4100	3650	4200	2800	7450	5350
	10	800	800	1400×1350	1450×1515	1800	1950	3750	1950	2100	3750	4100	3750	4550	2900	7850	5550
	12	900	900	1600×1350	1650×1515	2000	1950	4150	1950	2300	3750	4500	3750	5100	3800	9000	6250
90	13	1000	900	1600×1500	1650×1665	2000	2100	4150	2100	2300	3900	4500	3900	5450	4300	9650	6650
105	16	1200	1000	1800×1500	1890×1685	2400	2200	4950	2200	2700	4000	5300	4000	8000	5200	4.4400	10400
	10	1200	1100	2000×1350	2090×1535	2600	2050	5350	2050	2900	3850	5700	3850	8000	5200	14100	10400
	18 135	1350	1000	1800×1700	1890×1885	2400	2400	4950	2400	2700	4200	5300	4200	8900	6000	15400	11150
	10	1330	1100	2000×1500	2090×1685	2600	2200	5350	2200	2900	4000	5700	4000	8900	6000	15400	11150
	21 160	1600	1100	2000×1750	2090×1935	2600	2450	5350	2450	2900	4250	5700	4250	10200	7000	16950	12000
		1000	1100	2150×1600	2240×1785	2750	2300	5650	2300	3050	4100	6000	4100	10200	7000	10950	12000

Malaysia, Singapore (Unit:mm)

	Cap	acity	Entrance				Hoistw	ay Size			Machine	Room Size		Machin	e Room	Pit Re	action
Speed (m/min)	Dorson	Load(kg)	Opening	Inside	Outside	Sim	plex	Duj	olex	Sim	plex	Du	plex	Reaction	Load(kg)	Load	d(kg)
,	reison	Load(kg)	(mm)	$AN \times BN$	AS×BS	AH	ВН	AH	ВН	AM	BM	AM	BM	R1	R2	R3	R4
	8	550	800	1400×1030	1450×1195	1800	1630	3750	1630	2100	3400	4100	3400	4050	2500	6550	4800
	9	610	800	1400×1150	1450×1315	1800	1750	3750	1750	2100	3550	4100	3550	4100	2500	6850	5000
	10	680	800	1400×1250	1450×1415	1800	1850	3750	1850	2100	3650	4100	3650	4200	2800	7450	5350
	11	750	800	1400×1350	1450×1515	1800	1950	3750	1950	2100	3750	4100	3750	4550	2900	7850	5550
	13	900	900	1600×1350	1650×1515	2000	1950	4150	1950	2300	3750	4500	3750	5100	3800	9000	6250
90	15	1020	900	1600×1550	1650×1715	2000	2150	4150	2150	2300	3950	4500	3950	5450	4300	9650	6650
105	17	1155	1000	1800×1500	1890×1685	2400	2200	4950	2200	2700	4000	5300	4000	8000	5200	1 4100	10400
	17	1133	1100	2000×1350	2090×1535	2600	2050	5350	2050	2900	3850	5700	3850	8000	5200	14100	10400
	20	1360	1000	1800×1750	1890×1935	2400	2450	4950	2450	2700	4250	5300	4250	8900	6000	15400	11150
	20	1300	1100	2000×1550	2090×1735	2600	2250	5350	2250	2900	4050	5700	4050	8900	6000	15400	11150
	23	1565	1100	2000×1750	2090×1935	2600	2450	5350	2450	2900	4250	5700	4250	10200	7000	16950	12000
	23 15	1303	1100	2150×1600	2240×1785	2750	2300	5650	2300	3050	4100	6000	4100	10200	7000	10950	12000

Planning Guide For Dimensions | Di2 (Speed: 120&150 m/min), Geared

Standard (Unit:mm)

	Capa	acity	Entrance	Car !	Size			Hoistw	ay Size				1	Machine F	Room Size	2		Machine	e Room	Pit Rea	action
Speed (m/min)	Porcon	Load	Opening	Inside	Outside	Sim	plex	Dup	olex	Trip	olex	Sim	plex	Dup	olex	Trip	olex	Reaction	Load(kg)	Load	l(kg)
	reison	(kg)	(mm)	$AN \times BN$	$AS{ imes}BS$	АН	ВН	AH	ВН	АН	ВН	AM	BM	AM	BM	AM	BM	R1	R2	R3	R4
	13	900	900	1600×1350	1690×1535	2200	2150	4550	2150	6900	2150	2800	4100	5200	4100	7500	4700	11100	7550	13250	10100
400	15	1000	900	1600×1500	1690×1685	2200	2300	4550	2300	6900	2300	2800	4200	5200	4200	7500	4800	11650	7850	13950	10550
120 150	17	1150	1000	1800×1500	1890×1685	2400	2300	4950	2300	7500	2300	3000	4200	5600	4200	8100	4800	12300	8250	16600	12650
	20	1350	1000	1800×1700	1890×1885	2400	2500	4950	2500	7500	2500	3000	4400	5600	4400	8100	5100	13100	8850	18050	13550
	24	1600	1100	2000×1750	2090×1935	2600	2550	5350	2550	8100	2550	3200	4500	6000	4500	8700	5200	13900	9350	19550	14350

EN Code

	Capa	acity	Entrance	Car	Size			Hoistw	ay Size				1	Machine F	Room Size	2		Machin	e Room	Pit Rea	action
Speed (m/min)	Porcon	Load	Opening	Inside	Outside	Sim	plex	Dup	olex	Trip	olex	Sim	plex	Dup	olex	Trip	olex	Reaction	Load(kg)	Load	l(kg)
	reison	(kg)	(mm)	$AN \times BN$	$AS{ imes}BS$	АН	ВН	AH	ВН	АН	ВН	AM	BM	AM	BM	AM	BM	R1	R2	R3	R4
	12	900	900	1600×1350	1690×1535	2200	2150	4550	2150	6900	2150	2800	4100	5200	4100	7500	4700	11100	7550	13250	10100
400	13	1000	900	1600×1500	1690×1685	2200	2300	4550	2300	6900	2300	2800	4200	5200	4200	7500	4800	11650	7850	13950	10550
120 150	16	1200	1000	1800×1500	1890×1685	2400	2300	4950	2300	7500	2300	3000	4200	5600	4200	8100	4800	12300	8250	17550	13300
	18	1350	1000	1800×1700	1890×1885	2400	2500	4950	2500	7500	2500	3000	4400	5600	4400	8100	5100	13100	8850	18050	13550
	21	1600	1100	2000×1750	2090×1935	2600	2550	5350	2550	8100	2550	3200	4500	6000	4500	8700	5200	13900	9350	19550	14350

Malaysia, Singapore

	Capa	acity	Entrance	Car	Size			Hoistw	ay Size				1	Machine I	Room Size	9		Machine	e Room	Pit Re	action
Speed (m/min)			Opening	Inside	Outside	Sim	plex	Du	olex	Trip	olex	Sim	plex	Dup	olex	Trip	olex	Reaction	Load(kg)	Load	l(kg)
	reison	(kg)	(mm)	$AN \times BN$	$AS{ imes}BS$	АН	ВН	АН	ВН	АН	ВН	AM	BM	AM	BM	AM	BM	R1	R2	R3	R4
	13	900	900	1600×1350	1690×1535	2200	2150	4550	2150	6900	2150	2800	4100	5200	4100	7500	4700	11100	7550	13250	10100
120	15	1020	900	1600×1550	1690×1735	2200	2350	4550	2350	6900	2350	2800	4250	5200	4250	7500	4850	11650	7850	13950	10550
120 150	17	1155	1000	1800×1500	1890×1685	2400	2300	4950	2300	7500	2300	3000	4200	5600	4200	8100	4800	12300	8250	16600	12650
	20	1360	1000	1800×1750	1890×1935	2400	2550	4950	2550	7500	2550	3000	4450	5600	4450	8100	5150	13100	8850	18050	13550
	23	1565	1100	2000×1750	2090×1935	2600	2550	5350	2550	8100	2550	3200	4500	6000	4500	8700	5200	13900	9350	19550	14350

Electrical Design Guide

Di1 (Speed: 60,90 & 105 m/min)

ı	220V _	
ı	2200	400V
ı		400 V

	Capacity		Motor	MCCB Capacity		Supply	Lead - in Wi	re Size(mm²)	Forth Wire	Heat Outrest	Charting Davis	
Speed (m/min)	Person	Load (kg)	Capa. (kW)	mees capacity	Capaci	ty(kVA)	zead iii vi	,	Earth Wire Size(mm²)	(kcal / H)	Starting Power (kVA / set)	
				Simplex	Duplex	Simplex	Duplex	Simplex Duplex				
	6	450	5.5	50 30	100 60	4.2	8.4	8 5.5	14 5.5	5.5 3.5	675	13.1
	8	550	5.5	50 30	100 60	5.1	10.2	8 5.5	14 5.5	5.5 3.5	825	16
	9	600	7.5	50 30	100 60	5.5	11	8 5.5	14 5.5	5.5	900	17.5
	10	680	7.5	75 50	150 100	6.3	12.6	14 5.5	22 8	5.5	1020	19.9
60	11	750	11	75 50	150 100	6.9	13.8	14 5.5	22 8	5.5	1125	21.8
00	13	900	11	75 50	150 100	8.3	16.6	22 5.5	38 14	8 5.5	1350	26.2
	15	1000	11	75 50	150 100	9.2	18.4	22 5.5	38 14	8 5.5	1500	29.1
	17	1150	11	75 50	150 100	10	20	22 5.5	38 14	8 5.5	1725	23
	20	1350	11	100 50	125 100	8.9	17.8	22 5.5	38 14	8 5.5	2025	28.1
	24	1600	11	100 50	200 100	10.5	21	22 8	60 22	8 5.5	2400	33.3
	8	550	9.5	75 50	100 60	6.6	13.2	14 5.5	22 8	5.5	1238	20.7
	9	600	9.5	75 50	100 60	7.1	14.2	14 5.5	22 8	5.5	1350	22.6
	10	680	9.5	75 50	100 60	8.1	16.2	14 5.5	38 14	5.5	1530	25.6
	11	750	9.5	75 50	150 100	8.9	17.8	14 5.5	38 14	5.5	1688	28.2
90	13	900	13	75 50	150 100	10.7	21.4	22 5.5	38 14	14 5.5	2025	33.8
	15	1000	13	75 50	150 100	11.9	23.8	22 5.5	38 14	14 5.5	2250	37.6
	17	1150	13	100 60	200 100	11.3	22.6	22 8	60 22	14 5.5	2588	35.9
	20	1350	15	100 50	200 100	12.8	25.6	38 14	60 22	14 5.5	3040	40.7
	24	1600	15	125 75	250 125	15.2	30.4	38 14	60 22	14 5.5	3600	48.2
	8	550	11	75 50	100 60	7.6	15.2	14 5.5	38 14	5.5	1445	24.1
	9	600	11	75 50	100 60	8.3	16.6	14 5.5	38 14	5.5	1575	26.3
	10	680	11	75 50	100 60	9.4	18.8	14 5.5	38 14	5.5	1785	29.8
105	11	750	11	75 50	150 100	10.4	20.8	14 5.5	38 14	5.5	1970	32.8
	13	900	15	100 50	150 100	12.5	25	22 8	60 22	14 5.5	2365	39.4
	15	1000	15	100 50	150 100	13.8	27.6	22 8	60 22	14 5.5	2625	43.8
	17	1150	15	125 60	250 125	13.2	26.4	38 14	60 22	14 5.5	3019	41.8
	20	1350	18	125 75	250 125	15	30	38 14	60 22	14 5.5	3544	47.4
	24	1600	18	150 75	300 125	17.7	35.4	60 22	100 38	14 5.5	4200	56.2

Note. Please contact us if the distance of lead - in wire exceeds 50m.

Heat Output of Machine Room

 $kcal / H = F \times L \times S$ (H: Hour / F: Factor = 1/40 / L: Rated Load(kg) / S: Rated Speed (m/min) / *cal = 4.2 Joule)

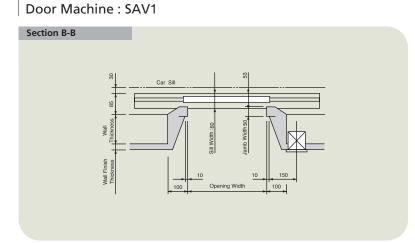
Di2 (Speed: 120, 150 m/min), Geared

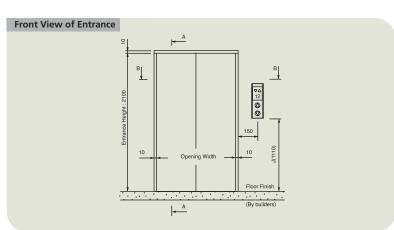


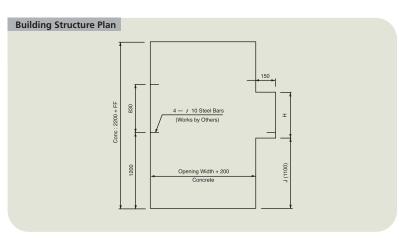
Speed (m/min)	Capacity		Motor	MCCB Capacity of Building(A)				Power Supply				Lead-in Wire				Earth	Heat	Starting
	Person	Load	Capa. (kW)	Wices capacity of building(A)				Capacity(kVA)				Size(mr²)				Wire	Output	Power
		(kg)		Simplex	Duplex	Triplex	Fourplex	Simplex	Duplex	Triplex	Fourplex	Simplex	Duplex	Triplex	Fourplex	Size(m²)	(kcal/H)	(kVA/set)
	15	1000	18	90 50	180 100	240 135	275 155	15	30	41	46	38 14	100 22	150 30	200 38	14	3000	35
120	17	1150	20	105 60			320 185	17	34	46	51	50 14	100 30	200 38	200 50	14	3450	39
	20	1350	22	125 75	250 140		390 225	20	40	53	59	50 14	125 38	200 60	250 80	14	4050	43
	24	1600	24	150 85	295 165	400 230	455 265	23	46	62	69	60 22	150 38	250 60	325 80	14	4800	48
	15	1000	22	120 70	235 130		360 210	18	37	50	55	50 14	125 30	200 50	250 60	14	3750	46
150	17	1150	24	130 80	260 145		405 235	21	42	57	63	60 14	150 38	250 60	325 80	14	4313	51
	20	1350	27			415 240	475 275	24	48	65	73	60 22	200 38	325 60	400 80	22	5063	57
	24	1600	30	185 110	365 205	495 290	570 330	28	57	77	85	80 22	200 50	325 80	500 100	22	6000	64

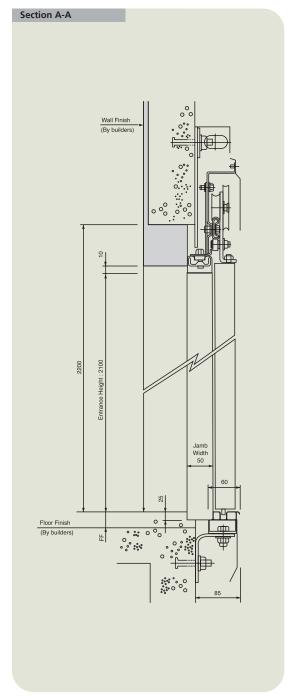
Entrance Details

Narrow Jamb without Transom Panel



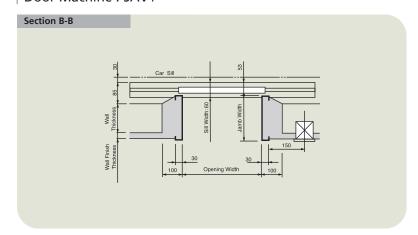


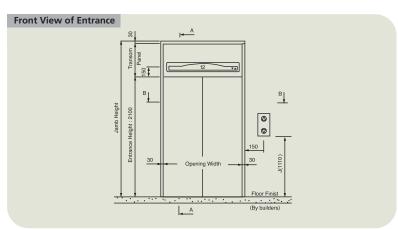


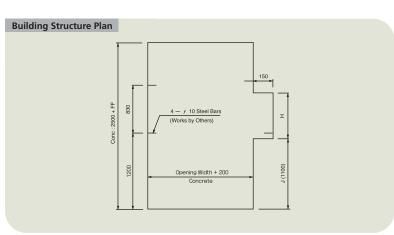


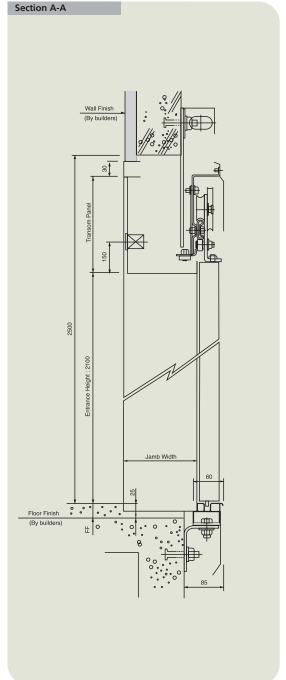
- 1. "H" dimension in building structure plan depends upon the type of hall indicator selected.
- 2. "J" dimension depends upon governing code requirement for height(above floor) of hall buttons.
- 3. Unit: mm

S-Type Wide Jamb with Transom Panel(with accentric line) Door Machine: SAV1





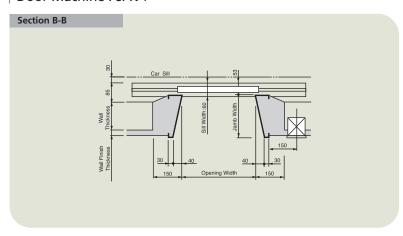


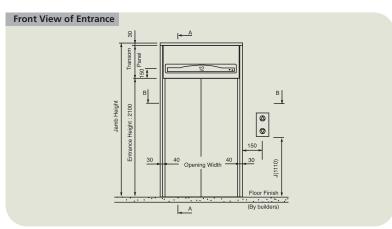


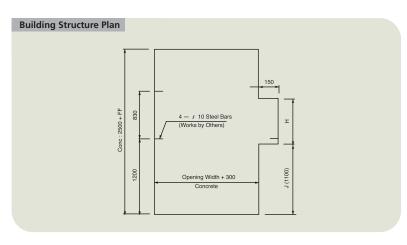
- 1. "H" dimension in building structure plan depends upon the type of hall indicator selected.
- 2. "J" dimension depends upon governing code requirement for height(above floor) of hall buttons.
- 3. Unit: mm

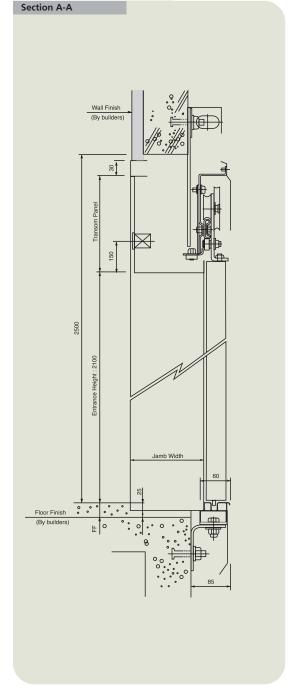
Entrance Details

T-Type Wide Jamb with Transom Panel(With accentric line) Door Machine: SAV1









Note

- 1. "H" dimension in building structure plan depends upon the type of hall indicator selected.
- 2. "J" dimension depends upon governing code requirement for height(above floor) of hall buttons.
- 3. Unit: mm

Technical Features

● Standard ○ Option

	• Standa	ird Optior
Feature	Description	Remark
Anti-nuisance operation	In case of substantial difference between the number of calls registered on the car operating panel and actual load in the elevator, the elevator prevents unnecessary operation by cancelling all registered calls when it arrives at the nearest floor.	•
Car call cancellation	Allows cancellation of an incorrectly registered car call. If you push a wrong floor button in the car, you can cancel it by pressing the same button one more time.	•
Automatic turn off of car light and fan	Car illumination and fan are turned off automatically in case there is no hall call or car call to save energy.	•
By pass operation (80%)	If the actual load comes to more than 80% of the allowable maximum load, the elevator will not react to the calling signals from other passing floors.	•
Over load (110% of rated load) holding stop	When the load of passengers exceeds the maximum capacity, a buzzer sounds and the elevator remains stopped at that floor. When the passengers get off, the buzzer will stop. Consequently elevator doors will close and operation continues.	•
Anti hall button jamming	If landing door would not closed by a hall button's jamming and it is caused car can't start then, the floor will close in force by the command from controller so that the car service next calls.	•
Door reopen control	While the car door is closing, if a door reopen signal is occured the door will be reopened immediately and after specified time expired the door will again close.	•
Car door safety edge	This device enables the doors to return to the fully open position, should the door encounter a person or obstacle while closing.	•
Automatic adjustment of door time	Door closing time can be adjusted in order to improve the efficiency.	•
Micro Leveling	An automatic two-way leveling device is provided to maintain the elevator car level with the landing, regardless of elevator load or direction travel	•
Back-up operation	In normal operation, if the serial communication between the controller and it's terminal board have something malfunction, the car mode is changed to a "back-Up" mode automatically, then the car checks itself by servicing every even floors and every odd floors until the car returns normal condition. By this operation, even though the car has something malfunction, passergers can be offered a limited service without shoutdown.	•
Safety Drive operation	During normal operation, a malfunction is occurred suddenly but it's not serious, in this case, if the car is not in a door zone, then the car starts to run to the nearest floor in slow speed. After stop at the nearest floor, the care remains stop with door fully open and "Out of Service" lamp. If the car condition is possible to return a normal condition itself then, the car can service normal operation again.	•
Voice synthesizer	This system provides passengers with audio information about car operation such as direction of travel, landing floor, etc.	0
Door photo sensor	The doors will return to fully open position if the light ray unit detects an obstacle when the doors are closing.	0
Multi-Photo	When passengers are entering or getting out of the elevator, the multi-photo device will prevent the door from closing.	0
Forced floor stop	After service on specific floor stop by car call, the car is operated normally.	0
Supervisory panel	This panel monitors elevator operations and conditions of emergency operations from the building's control room	0
Parking Operation	In order for park the elevator, if the parking key is on position the car stop at the specified floor after finish servicing of all of registered calls. After the car stops at the specified floor, the car light and fan are off automatically and every buttons both on the car operating panel and hall button box are no more available.	0
Fire return operation	In case of fire every cars should be returned to the specified floor in order to evacuate passengers safety.	0
Fireman Operation	In case of fire, a firemen can use the elevator which is stopped at the specified floor in order to support firemen for fire-fighting.	0



Work By Others

The works below are not included in the elevator installation work and should be carried out by building contractors in accordance with our drawings, relevant international or local codes and regulations.

Hoistway

- · A properly framed and enclosed hoistway, including any ventilation as required by the governing code or authority.
- · A dry pit constructed to the elevator manufacturer's specifications to reinforce or sustain any vertical forces on the guide rails and impacted loads from the car and counterweight buffers.
- · A metal sill angle or concrete haunch across the full width of the hoistway at each elevator landing.
- · Provision of steel bars to fix jamb around the entrance of each floor.
- · All cutting, including cutouts to accommodate hall singal fixtures, patching, painting of walls, floors, or partitions, together with finish painting of entrance doors and frames, if required.
- · Provision of entrance or ladder for pit access
- · Supply and installation of fascia plate.
- · Installation of emergency exits and electric wiring in blind sections of hoistway where required.
- · The tolerance of perpendicular line over the whole hoistway height must not exceed ±30mm.
- · A waterproof outlet and light fixture in the elevator pit area with the light switch being located adjacent to the access door or ladder.
- · Suitable light fixture and convenience outlet in the pit with a light switch adjacent to the access door or ladder. The receptacles shall have protection for ground fault circuit interrupter.

Machine Room

- · Provision of wiring between controller and building management system.
- · A construction hoisting beam or hook, if required, with the correct location and size as determined by the elevator contractor for each hoistway.
- · Noise insulation should be installed between machine room and adjacent residential area.
- · A suitable machine room with legal access, ventilation and concrete floor.
- The temperature in the machine room should be maintained between 5° and 40° .
- Relative humidity should not exceed 90%(monthly) and 95%(daily) non-condensing.
- Ventilation fan or air conditioner should be provided as per heat dissipation by the elevator contractor.
- · The size of entrance shall be Min.1000mm(W) x 2000mm(H).
- · Installation of lead-in wire and earth wire between building main power board and machine room incoming distribution board. However, machine room lighting source supply shall be installed separately.
- · Provision of suitable light fixture and convenience outlets in the machine room

Miscellaneous

- · Wiring and piping between monitoring system.
- · Machine room and hoistway shall be free of dust or harmful gas.
- · All electric power for lighting, tools, welding, etc during installation.
- · All single phase receptacles installed in machine room, pit, and machinery spaces shall have ground fault circuit interrupter protection.
- · Fire detector for fire emergency operation.
- · A secured area for storage of elevator equipment and materials during installtion.



